

Comparisons of Job Characteristics

Focus Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099)

Associated Occupation: Atmospheric and Space Scientists (19-2021)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 61

Focus Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099)

Associated Occupation: Atmospheric and Space Scientists (19-2021)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Geography	3.9	18.3	10.9	<< Extensive education and/or training may be required
Mathematics	9.2	16.4	12.8	<< Extensive education and/or training may be required
Physics	4.3	15.9	5.9	<< Extensive education and/or training may be required
Computers and Electronics	8.4	15.7	15.0	0 Current knowledge level may be sufficient
Communications and Media	5.3	10.4	5.9	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099)

Associated Occupation: Atmospheric and Space Scientists (19-2021)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Science	4.5	15.5	9.0	<< Extensive development of skills in this area may be required
Reading Comprehension	10.7	14.9	12.0	< A higher skill level may be required
Critical Thinking	10.8	13.6	11.1	< A higher skill level may be required
Active Learning	8.7	13.0	9.6	<< Extensive development of skills in this area may be required
Mathematics	6.2	9.3	9.0	0 Current skill level may be sufficient
Operations Analysis	5.0	9.1	7.3	< A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 88			
Focus Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099) Associated Occupation: Atmospheric and Space Scientists (19-2021)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Expression	12.4	17.0	12.5	<<	Extensive improvement in abilities may be required
Written Comprehension	11.0	15.9	12.2	<<	Extensive improvement in abilities may be required
Oral Comprehension	12.5	15.5	13.0	<	Some improvement in abilities may be required
Written Expression	9.8	14.1	11.8	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	13.9	12.0	<	Some improvement in abilities may be required
Inductive Reasoning	10.2	13.8	11.8	<	Some improvement in abilities may be required
Speech Clarity	10.2	13.6	9.8	<<	Extensive improvement in abilities may be required
Flexibility of Closure	7.8	11.0	9.7	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	10.2	10.1	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 46	
Focus Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099) Associated Occupation: Atmospheric and Space Scientists (19-2021)			
Tools and Technologies		Exclusivity	
Computers		1	
Content authoring and editing software		1	
Data management and query software		1	
Humidity and moisture measuring instruments		15	
Industry specific software		1	
Information exchange software		1	
Light and wave generating and measuring equipment		4	
Radar and sonar systems and components		24	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.